FIG. 1

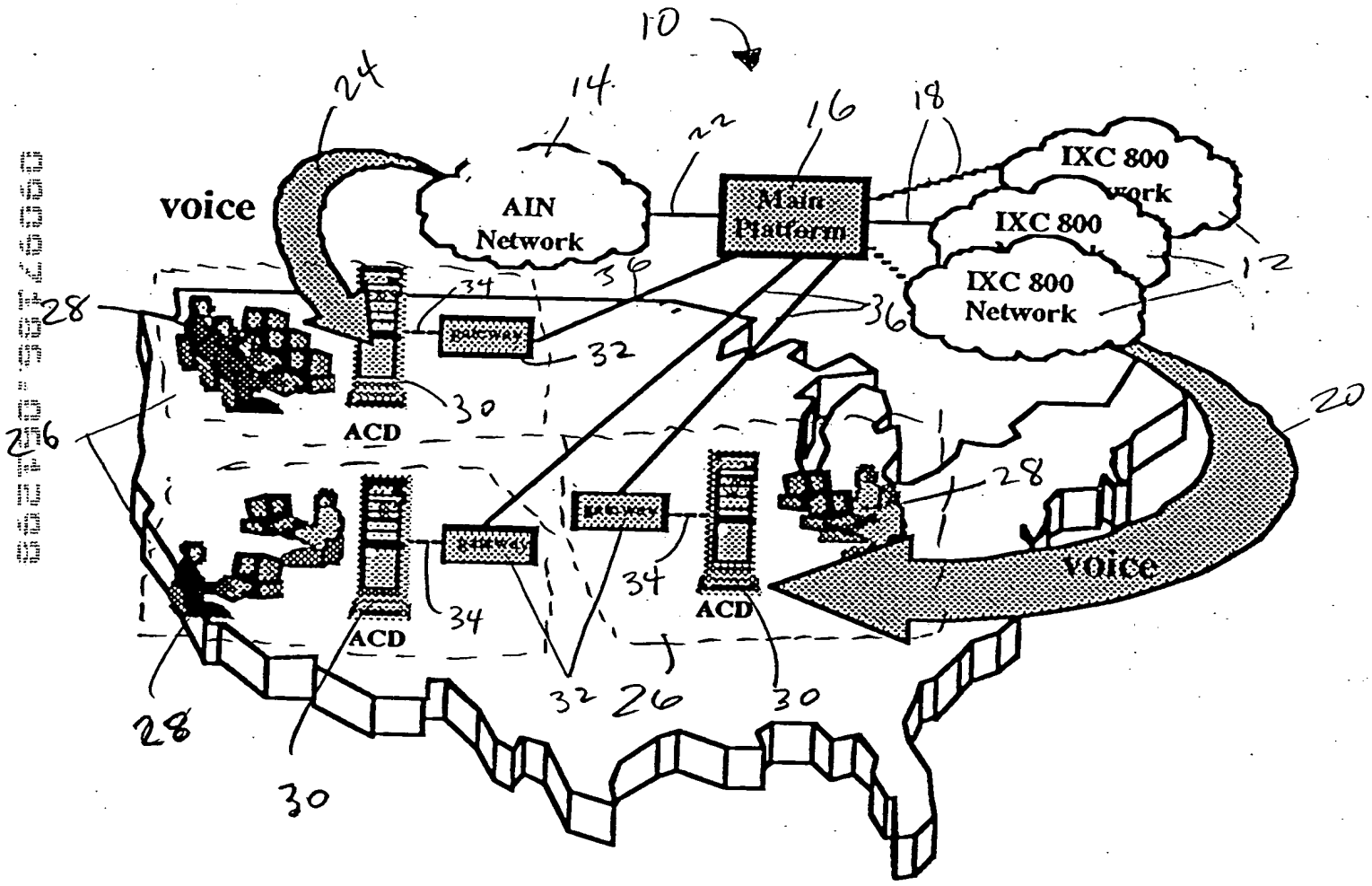

10
24
14
22
16
18
voice
AIN Network
Main Platform
IXC 800
IXC 800
IXC 800 Network
12
28
34
36
32
30
ACD
20
28
34
32
26
30
ACD
ACD
voice
28
30

FIG. 2

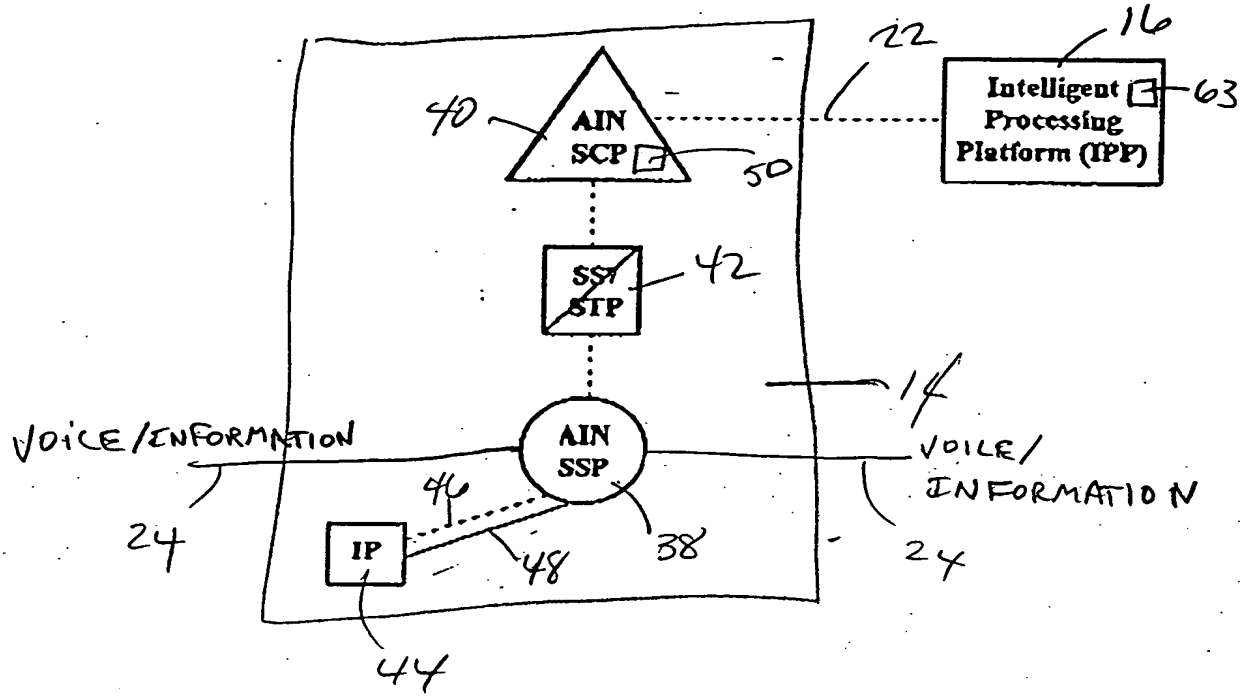

22
16
Intelligent Processing Platform (IPP)
63
40
AIN SCP
50
SS7 STP
42
14
VOICE/INFORMATION
AIN SSP
VOICE/ INFORMATION
46
24
IP
48
38
24
44

FIG. 3

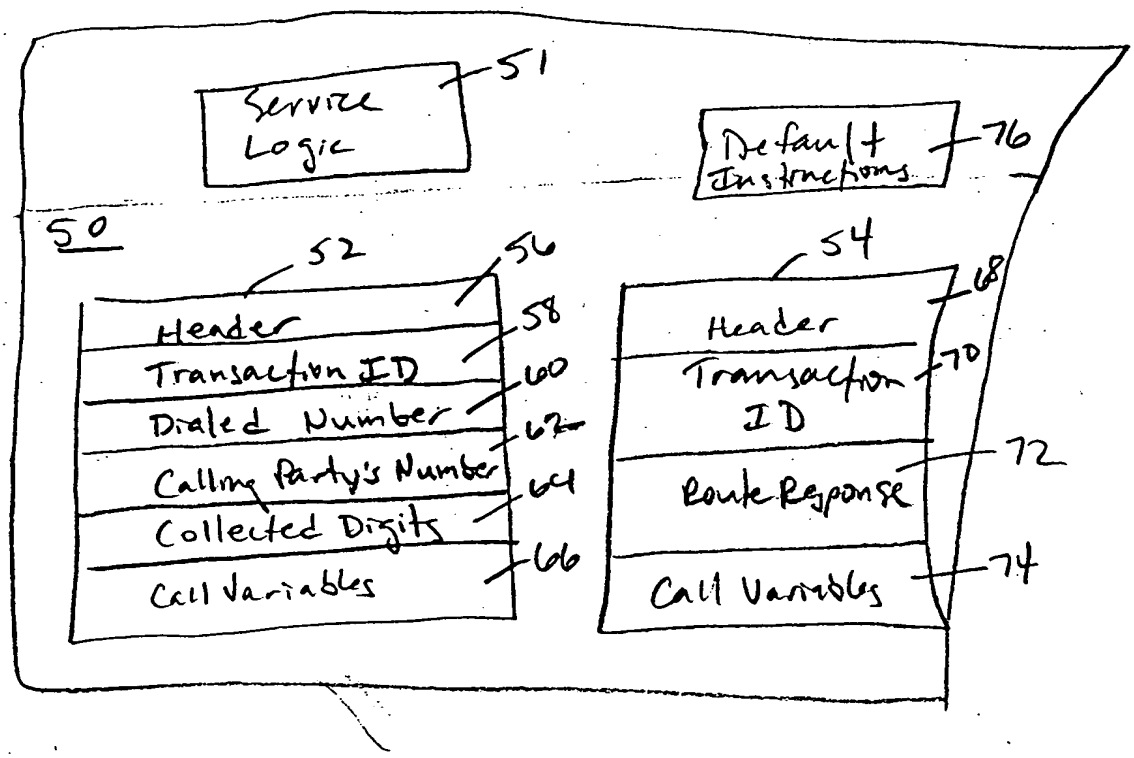

Service Logic
51
Default Instructions
76
50
52
56
Header
58
Transaction ID
60
Dialed Number
62
Calling Party's Number
64
Collected Digits
66
Call Variables
54
68
Header
Transaction ID
70
72
Route Response
74
Call Variables

FIG. 4

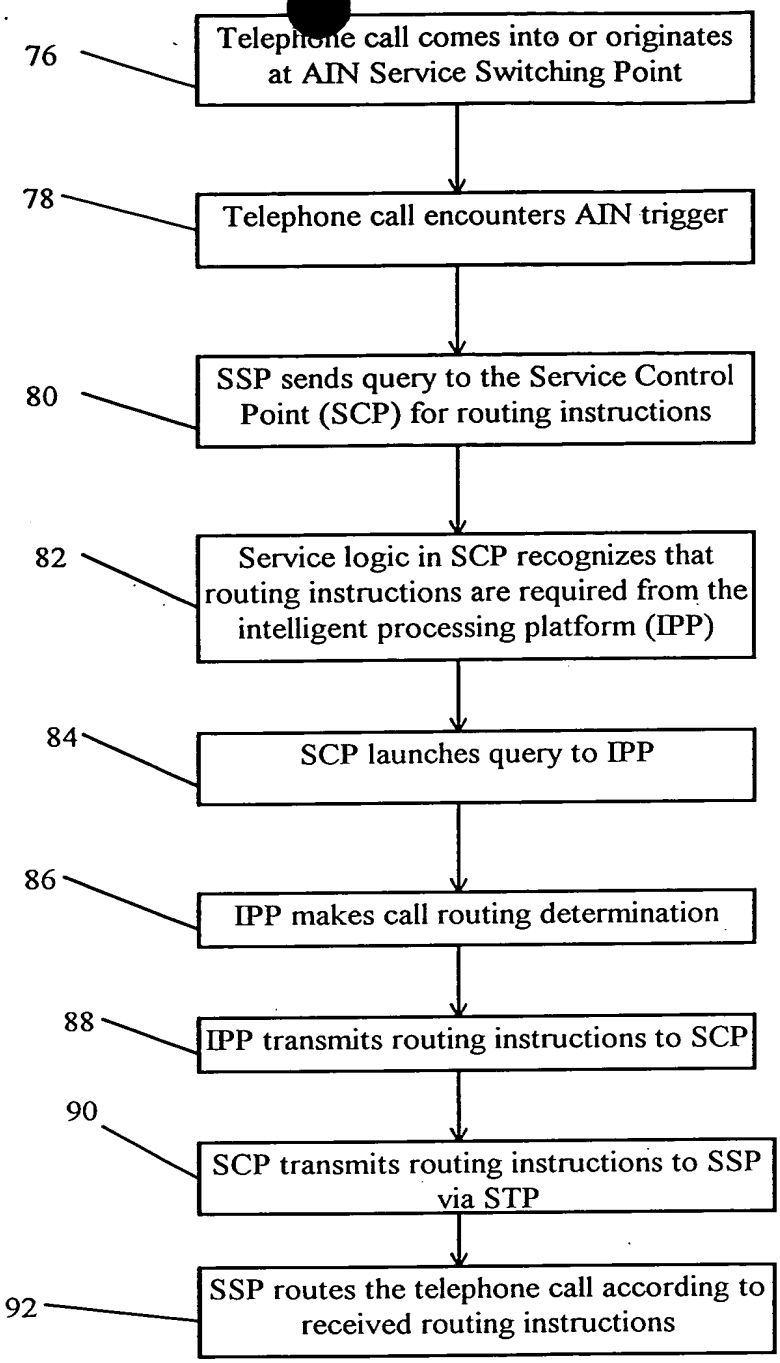

76
Telephone call comes into or originates at AIN Service Switching Point
78
Telephone call encounters AIN trigger
80
SSP sends query to the Service Control Point (SCP) for routing instructions
82
Service logic in SCP recognizes that routing instructions are required from the intelligent processing platform (IPP)
84
SCP launches query to IPP
86
IPP makes call routing determination
88
IPP transmits routing instructions to SCP
90
SCP transmits routing instructions to SSP via STP
92
SSP routes the telephone call according to received routing instructions

FIG. 5

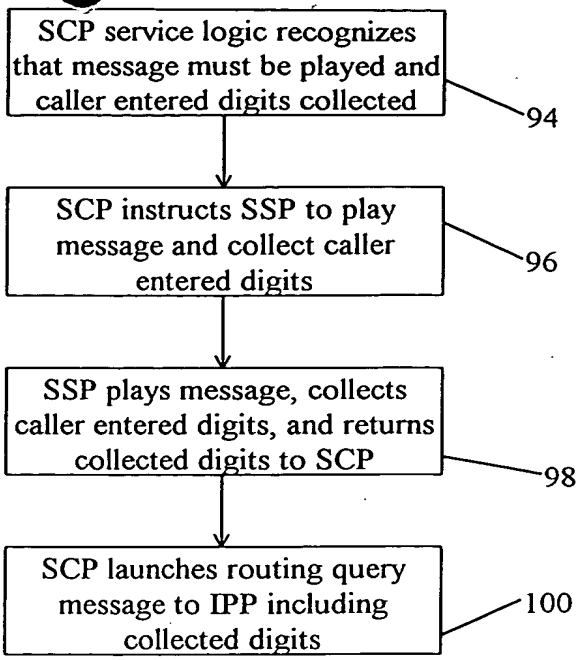
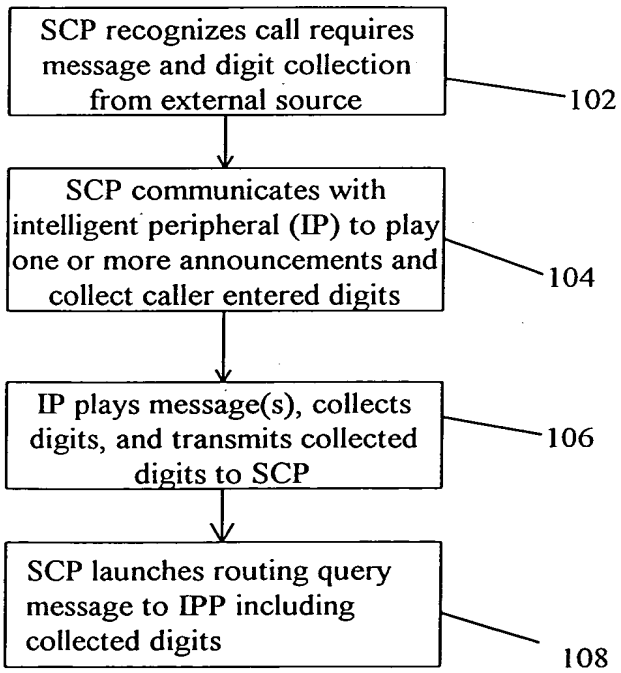

SCP service logic recognizes that message must be played and caller entered digits collected
94
SCP instructs SSP to play message and collect caller entered digits
96
SSP plays message, collects caller entered digits, and returns collected digits to SCP
98
SCP launches routing query message to IPP including collected digits
100

FIG. 6


SCP recognizes call requires message and digit collection from external source
102
SCP communicates with intelligent peripheral (IP) to play one or more announcements and collect caller entered digits
104
IP plays message(s), collects digits, and transmits collected digits to SCP
106
SCP launches routing query message to IPP including collected digits
108